

**MINUTES OF MEETING OF
BOARD OF ELECTRICAL APPEALS**

September 13, 2005 - 3:00 p.m.

**OFFICE OF CENTRAL INSPECTION
CITY HALL, 455 NORTH MAIN
OCI CONFERENCE ROOM, 7th FLOOR**

Chairman Roy Meinhardt called the meeting to order at 3:05 pm, with Board members Dale Johnson, John Whittit, Harold Ragland, Jerry Addington and Secretary Tom Kerschen present. Also present was Steve Schauner electrical inspector and Mike Hood elevator inspector. Board members, Larry Clark and Larry Hackney were absent.

The minutes of the June 28, 2005 special meeting were read. Board member Whittit made a motion the minutes be approved as written, it was seconded by Board member Ragland and approved.

The recent examination results from Exporior Assessments for electrical examinations administered by their office for City of Wichita approved applicants were presented to the Board. The results were as follows:

APPLICANT NAME	APPLICANT NUMBER	EXAMINATION CLASSIFICATION	EXAMINATION RESULT
Charles Ingram	0375	Master	Passed
Paul Bohlken	3552	Journeyman	Failed
Alan Lee Rader	5744	Journeyman	Failed
Gary Lindow	8802	Journeyman	Passed
Jason DeBerry	9735	Journeyman	Passed
Michael Henley	0231	Journeyman	Failed
Heath Alcaraz	9570	Res. Journeyman	Passed
Richard Diaz	2270	Res. Journeyman	Failed
Terry Rowe	5675	Res. Journeyman	Failed

Five (5) Master Electrician, five (5) Journeymen Electrician and five (5) Residential Journeyman Electrician examination applications were reviewed for approval to be administered the appropriate examination for certification. The results were as follows:

NAME	NUMBER	CLASSIFICATION	ACTION
Jon Cagle	7400	Master	Approved
Michael Schartz	7082	Master	Approved
Travis Eck	6152	Master	Approved
Donald Lavallee	2256	Master	Approved
Bradley Ashcraft	4938	Master	Approved
Joshua Cagle	4999	Journeyman	Approved
Joe D. Correll Jr.	7098	Journeyman	Approved
Paul Bohlken	3552	Journeyman	Approved
Michael Henley	0231	Journeyman	Approved

Alan Lee Rader	5744	Journeyman	Approved
Heath Alcaraz	9570	Res. Journeyman	Approved
Richard Diaz	2270	Res. Journeyman	Approved
Terry Rowe	5675	Res. Journeyman	Approved
Devon Ward	8584	Res. Journeyman	Approved
Erick D. West	3068	Res. Journeyman	Approved

Under part A of the new business section of the agenda, the Board welcomed Dave DauffenBach of Electrical Systems Inc. Secretary Kerschen explained to the Board that at Berean Church, 1230 N Hoover 4/0 AWG aluminum conductors were ran from the transformer, with the meter on the transformer, to the 200 amp main breaker in each of 2 service panels. Section 19.12.080 of the City of Wichita Title 19 states that conductors rated 200 ampere or less on commercial/industrial buildings are to be copper. 4/0 AWG aluminum conductors ran underground are rated for 180 amperes and as such would require to be copper conductors.

Mr. DauffenBach explained to the Board that after this was brought to his attention by the electrical inspector he reworked the connections at the building by installing a junction box on the building where the conduit came out of the ground, and connected the 2 sets of 4/0 AWG aluminum wire together in parallel and than ran individual 3/0 AWG copper conductors from that junction box to each 200 amp main breaker. Mr. DauffenBach brought pictures and passed around to the Board members to show the connections made. Mr. DauffenBach pointed out that the 2002 NEC article 310.4 states “Aluminum, copper-clad aluminum, or copper conductors or size 1/0 AWG and larger, comprising each phase, neutral, or grounded circuit conductor, shall be permitted to be connected in parallel (electrically joined at both ends to form a single conductor). He went on to say this if the 2 4/0 AWG conductors are now considered one conductor with a total cross-sectional area of 423kcmil and would have an ampere rating of at least 270 ampere which would allow for aluminum conductors per section 19.12.080 of Title 19.

Chairman Meinhardt thanked Mr. DauffenBach for presenting his case to the Board and explained that the Board would continue to discuss this later in the meeting and would have Secretary Kerschen notify Mr. DauffenBach by mail of the Board’s decision. Mr. DauffenBach thanked the Board for listening and excused himself from the meeting.

The Board continued to discuss in length whether aluminum was allowed in this situation and checked the 2005 NEC, which the Board has been reviewing for adoption, and found that article 310.4 was changed and the wording “to form a single conductor” has been removed. After continued discussion Board member Whittit made a motion to allow the 4/0 AWG aluminum conductors, that have now been connected in parallel, on this instance and to add wording in Title 19 such as to clarify the intent which is that each individual conductor needs to be rated at 200 amperes. Board member Ragland seconded the motion and it unanimously passed.

The Board then went back to part A of the unfinished business section of the agenda which is the continued review of the 2005 NEC and Title 19. We continued the review in chapter 19.12 of Title 19 and the Board agreed with all changes with the exception of clarifying section 19.12.080 as to parallel conductors. The main changes are repealing the exception to arc fault circuit interrupters and modifying the requirements of in-use weather proof covers.

Under part B and C of the new business section of the agenda, the Board reviewed Chapters 19.22, 19.24 and 19.28 of Title 19. Chapter 19.22 is a newly created chapter to consolidate all the main references to the elevator/escalator code into one general area. Each section was explained to the Board by Secretary Kerschen and Mike Hood. The main additions to the elevator requirements are the requirements of

elevator mechanics to have a certification issued by the City of Wichita, adding the permit fee table and defining the alterations and repairs that require permits. Also in Chapters 19.22, 19.24 and 19.28 requiring a tag at the main telephone terminal of a building to identify the telephone line dedicated to the elevator.

After reviewing all the sections, a motion was made by Board member Whittit to recommend the proposed changes to Title 19 to the City Council for final adoption, pending the additional wording clarifying section 19.12.080 pertaining to parallel conductors and approval of said wording by email to each Board member. The motion was seconded by Board member Ragland and unanimously passed.

With no other business to conduct, Board member Whittit made a motion to adjourn. Board member Ragland seconded the motion and the meeting adjourned.

The time was 5:37 pm.

Tom Kerschen, Secretary,
Board of Electrical Appeals